BRUHATH BENGALURU MAHANAGARA PALIKE

EXECUTIVE ENGINEER YELAHANKA DIVISION

Name of the work : "Repair and renovation to Samudhaya Building at JP colony in ward no-05 Yelahanka New town sub division"

WorkSlip

Sl. No.	Description of Item	Unit	As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess
			Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount		
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge	Cum	14.11	1798.54	25377.40	14.40	14.40	1798.54	25898.98	0.00	1798.54	0.00	25898.98	521.58
2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge	Cum	14.11	540.14	7621.38	13.20	13.20	540.14	7129.85	0.00	540.14	0.00	7129.85	
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge	Cum	12.72	357.19	4543.46	13.08	13.08	357.19	4672.05	0.00	0.00	0.00	4672.05	128.59
4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material to the appropriate disposal area as per direction of Engineer-in-charge. For thickness of tiles above 25 mm and up to 40 mm.	Sqm	52.21	54.21	2830.30	0.00	0.00	54.21	0.00	0.00	0.00	0.00	0.00	
5	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 Litre per 50 kg of cement or as per direction of Engineer incharge	Sqm	47.97	682.44	32736.65	0.00	0.00	682.44	0.00	0.00	0.00	0.00	0.00	
6	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to IS: 15622 of approved make, in all colours & shade, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joint with white cement & matching pigments etc. complete	Sqm	47.97	105.34	5053.16	48.01	48.01	105.34	5057.11	0.00	0.00	0.00	5057.11	3.95
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 web 10cm thick and Finishing cutting, including from work,curing,including cost of all materials labour,hire charges of machinery loading,unloading,lead and lift,transportation etc.complete	Sqm	99.00	1823.36	180512.64	69.66	69.66	1823.36	127015.26	0.00	0.00	0.00	127015.26	

12	Work carried out													

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8	Earth work excavation by manual means for drains,canals waste weir, draft, approach channels, key trenches, foundations of bridges and such similar works in all kinds of soils , as per drawing and technical specifications. Including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m	Cum	3.00	192.63	577.89	3.75	3.75	192.63	722.36	21.31	185.30	3947.98	4670.34	4092.45
9	Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications	Cum	0.20	2479.05	495.81	0.25	0.25	2479.05	619.76	2.26	2384.68	5378.87	5998.64	5502.83
10	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lift, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates	Cum	0.30	5376.27	1612.88	0.38	0.38	5376.27	2016.10	2.50	5171.61	12908.33	14924.43	13311.55
11	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1.90	197.47	375.19	0.00	0.00	197.47	0.00	0.00	0.00	0.00	0.00	

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12	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed	Cum	0.60	6380.28	3828.17	0.75	0.75	6380.28	4785.21	5.51	5985.23	33002.55	37787.76	33959.59
13	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The rest includes all lead & lifts, cost of all materials quality confirming to the requirments of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid seprately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates-Columns upto top slab	Cum	1.44	6586.85	9485.06	0.00	0.00	6586.85	0.00	0.00	0.00	0.00	0.00	
14	Beams	Cum	0.23	7185.66	1652.70	0.00	0.00	7185.66	0.00	0.00	0.00	0.00	0.00	
15	Staircase	Cum	2.11	7185.66	15161.74	0.00	0.00	7185.66	0.00	0.00	0.00	0.00	0.00	
16	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured seperately)	Kgs	295.00	92.93	27414.35	368.75	368.75	92.93	34267.94	69.73	89.39	6233.19	40501.13	13086.78

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17	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - 1) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	23.92	1027.05	24567.04	21.80	21.80	1027.05	22389.69	0.00	0.00	0.00	22389.69	
18	Dismantling plastering and removing the debris with a lead upto 200m.	Sqm	138.35	35.82	4955.70	139.68	139.68	35.82	5003.43	0.00	0.00	0.00	5003.43	47.73
19	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding including cost of materials, labour curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	108.77	311.70	33903.61	110.62	110.62	311.70	34480.25	0.00	0.00	0.00	34480.25	576.65
20	Providing 20 mm cement plaster of mix 1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	23.92	289.43	6923.17	21.80	21.80	289.43	6309.57	0.00	0.00	0.00	6309.57	
21	Providing 12mm thick cement plaster in floating coat of neat cement of mix 1:4 to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	46.33	253.62	11750.21	43.06	43.06	253.62	10920.24	0.00	0.00	0.00	10920.24	
22	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacture, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm	134.40	80.34	10797.70	139.68	139.68	80.34	11222.09	0.00	0.00	0.00	11222.09	424.40

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23	Painting walls with Acrylic Smooth exterior paint of required shade .New work (Two coat applied @ 1.67 ltr/10 m over and including priming coat of exterior primer applied @ 2.20 kg/10 m2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer in-charge	Sqm	205.02	131.65	26990.88	230.72	230.72	131.65	30374.62	0.00	0.00	0.00	30374.62	3383.73
24	Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat preparation of surface, etc complete. On concrete work including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	261.02	133.58	34867.05	252.52	252.52	133.58	33731.96	0.00	0.00	0.00	33731.96	
25	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix :2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge	Sqm	8.33	716.76	5970.61	10.41	10.41	716.76	7463.26	18.65	674.15	12572.95	20036.21	14065.60
26	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity)	Ltr	3000.00	7.92	23760.00	2000.00	2000.00	7.92	15840.00	0.00	0.00	0.00	15840.00	

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27	Providing and laying water proofing treatment to the floor with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC/Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2 coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including primer coat of epoxy primer @150 g per m2 and protection with 120gsm Geotextile over the waterproofing membrane. The finished cost to include surface preparation, making coving at junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product &	Sqm	73.64	737.55	54313.18	83.33	83.33	737.55	61461.89	0.00	0.00	0.00	61461.89	7148.70
28	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre flow level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. W.C. pan with ISI marked white solid plastic seat and lid	Each	2.00	4954.95	9909.90	2.00	2.00	4954.95	9909.90	0.00	0.00	0.00	9909.90	0.00
29	Providing and fixing orr pipes construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings G.I. clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required. Single squatting plate with 5 litre P.V.C. automatic flushing cistern	Each	2.00	5147.01	10294.02	2.00	2.00	5147.01	10294.02	0.00	0.00	0.00	10294.02	0.00
30	LED Indoor Supplying of 2 feet - LED PVC Square Batten 18 W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical conditions LED light Fighting's 28 watts complete and as per the directions of the Engineer in-charge of the work.	Each	15.00	446.40	6696.00	15.00	15.00	446.40	6696.00	0.00	0.00	0.00	6696.00	0.00

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31	Supplying and fixing of 4ft batty fitting, made out of CRCA Sheet metal body with locking type holder completely wired Excluding Ballast & Fluorescent Tube	Each	8.00	1876.50	15012.00	8.00	8.00	1876.50	15012.00	0.00	0.00	0.00	15012.00	0.00
32	Supplying heavy gauge PVC conduit pipe ... mm dia ... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick(including audio system)complete and as per the directions of the Engineer-in-charge of the work 25mm dia 2mm thick	M	40.00	63.00	2520.00	40.00	40.00	63.00	2520.00	0.00	0.00	0.00	2520.00	0.00
33	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments2 HP. Size 50x40 Head 22M, Discharge 186 LPM	Each	2.00	17295.30	34590.60	2.00	2.00	17295.30	34590.60	0.00	0.00	0.00	34590.60	0.00
34	supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS 1708/1984 with latest amendement, Rated voltage 220 V/50 Hz. Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 (approx)min, Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Maximum, Rated service value 4.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6200, as per IS specification, Motor winding Temp rise Shall not exceed 75 deg C over and ambient of 40 0C by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 200 Micro Amp, Power input,	Each	4.00	2654.10	10616.40	5.00	5.00	2654.10	13270.50	0.00	0.00	0.00	13270.50	2654.10
35	Round S S Chairs for samudhayabhavana complete as per specification and Directions of Engineer in Charge	Nos	40.00	1170.00	46800.00	50.00	50.00	1170.00	58500.00	0.00	0.00	0.00	58500.00	11700.00
36	Spaceyards Apollos Full Stainless Steel Folding Table, 18 gauge multipurpose table, Metal conference table (Free standing , finish color - Grey, pre assembled) for samudhayabhavana complete as per specification and Directions of Engineer in Charge	No	7.00	15210.00	106470.00	8.00	8.00	15210.00	121680.00	0.00	0.00	0.00	121680.00	15210.00
37	GREEN SOUL Senshi-X Mid Back Ergonomic Chair	Each	1.00	5901.48	5901.48	1.00	1.00	5901.48	5901.48	0.00	0.00	0.00	5901.48	0.00

Home Office, WFH Moulded Foam Extra Comfort Fabric Office Executive Chair complete as per specification and Directions of Engineer in Charge

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	...ntry Bulkless Rack for Storing books of all types complete as per specification and Directions of Engineer in Charge	Each	1.00	19773.00	19773.00	1.00	1.00	19773.00	19773.00	0.00	0.00	0.00	19773.00	0.00
	Nilkamal Metalica visitor Chair, complete as per specification and Directions of Engineer In Charge.	Each	3.00	2808.00	8424.00	4.00	4.00	2808.00	11232.00	0.00	0.00	0.00	11232.00	2508.00
	Four Shell Almirah for Office and institutional usage made with painted or powder coated ISI Grade mild steel body complete as per specification and Directions of Engineer In Charge	Each	1.00	14625.00	14625.00	1.00	1.00	14625.00	14625.00	0.00	0.00	0.00	14625.00	0.00
	Wondyota Azura Office Table - home office desk designed for effortless hide computer equipment complete as per specification and Directions of Engineer In Charge	Each	1.00	8656.83	8656.83	1.00	1.00	8656.83	8656.83	0.00	0.00	0.00	8656.83	0.00
41														
42	Rubber door mats complete as per specification and Directions of Engineer In Charge	Each	6.00	292.50	1755.00	6.00	6.00	292.50	1755.00	0.00	0.00	0.00	1755.00	0.00
	TOTAL				860122.16								859841.82	128626.22

Percentage of excess comparing to the sanctioned Estimated cost = $\frac{128626.22}{860122.16} \times 100 = 14.95\%$

Assistant Engineer
BBMP-Bangalore

Executive Engineer
BBMP-Bangalore